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The graphics are available but the full picture only all there large of part becomes it is no creat race time is lost to

The minimized partner graphics made, with only continued using another graphics made, with only continued perlix at the large pictured. One thing is certain, to Prove offices a giant ration of viewing and edicing mercic that should saidly the most demanding player. It is possible to get into quite a madelle with all the state controls, whereby you are looking at a positive that in, or that of voir received location, GRAPHEN SONOMIAL.



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Lynd in which she can't make to find you be rows. She has become regaged to an finglish Lend no less and is going to live in Tripellian Castir out in Conwall – a lovely old place and regardly bisotroid.

How though change! I light slays later, a record for services and the loss of lappiness has been replaced by each service such the loss of lappiness has been replaced by each short renew. Execute in convinced that instruces in Irving Acid but. These have been too a strategies on the 16% on Ich. Also, werend of the gents in the careful bury reported social Arbo, werend of the gents in the careful bury reported social for Wilson Laby, "questionly after the confidentations developing one of Level Just. Transplants," for executing affections. As a year of the confident is a mountained part of a measure a strend, but as a mountained and a measure and renew. In the confidence is a finished as a post of social or a mountained and the finished and the confidence is a finished as a production of the social and the

toon those resisters of the adversion game. I this describant is not like the Adversion The game in which the Adversion The game is not standardizery level and is ideal for those of you who do update facely conserved as Sharkston Adversion and the hopement, you are proceeded for your same and info, describinging your in A. All the requires which the game is a All the requires which the game is the first than the contraction of the contraction of

The game starts with your drawing up ontoide the or gates. You quickly meet some of the other gates bell going to your room to draw for claim. No somewhat or taken a couple of bites than the plot thickens when a setup necessary gates a message from Lood Jack's become the country of the best with the plot thickens when a setup necessary gate.

Transaur, a ghost with some very odd behaviorall habbt the death throats to Tamers and the mystery of Dorder! dromning whos no body was over discovered should keep come the most beflant detective question to be the very too go round the carefu, startfuling for cliest and were prosper and asking the genetic what feet a knew about series people or objects.

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up to the usual federom standards. The main records forth in that the Americans have no sides how the filled slope classic behave asses when they have seen in the price classic behave asses when they have seen in the price classic behave asses when they have been a fill the classic cla

are packaged and Memmets is no everytime. A book as the phone of Correadi, a south brothers to the cards. Tomars's two listers and an iron on transfer for a twenthe are all tackaded. If you have always fracted southerflowings major erisme, or four in this case, you could do a lot week than discover why Memmets has helped as made laffecout the best adversarse written in the business by a long way.

GRH

Stiken Dreams

many concerned with ones and winneds refuse then space-thing and linees. For the classering so cit hard, there we have been a dutient lack of decent games. Now, their make it over for Rainbird has put supplies there of Level 9's old games into one large compections.

Show Process is the tible and the games included are

Shore Overson is the tible and the games included and southeld. Areas so false and The Woose in Finalson. The games have been re-writen and equanded to make use of Local Vs. Isassa partur and compression techniques. In the cope of Servi-bell, gappings have been included for the first

To play the part of Kim Kembelley, secret agent exiscoclassis. In Samuball, yea are changed with proceeding a internellar from once hibernation, you are sweep cosensities post processing that have no idea upto secreting in devadelity wering but have no idea upto your way to the control could not all exp Societies for your say to the control could not all exp Societies for your say to the control could not all exp Societies for could get a secreting for the control of the could be control. The secretic secretic secretic secretic secretic Adheads tour reasoned to serve the this is it over abstrace.

and saveral powerful people have put two and two tragels and made from when they formal you quity of subcatage, for temporal to death, you managed to except and became the first of your mot to land on Eden. You must reach the obset of of Esach, and stop their trans descripting Snowhall 9. As that warn't enough, the crew of Snowhall are still after you blood.

In Wover to Paradov, the setting is the city of Enoch years later. The organization of the city is scene-what strabeing based on zero taxes, instant face for crime as becoming business in square purts for transplant surgery are immersal if you can keep notificate the necessary in



REVIEWS

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Buttellon Commo

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The WHING his to be under a some cauge in the reapears. You care through the play American, Romains and susually, Chilates farein over a set of variations that shoolundy smokholosing. If the problems of contribing an eatire handalon was not hard enough in the first place, the shodle game taken places are of these as those in an indicate shaping a cap of carlos and possibility core you must have There are not be coursely. Pursuit and explosions to see

insolve threat into nonexy turvitory. Mording imagenerate it chance excession. Attack see you trying is book throug the enemy lines as you try to reach a key objective as defence in the exact opposite. You can choose which side yo want to be, which of 40 different turnion you with a figcor and whother or not you want to after the relation strengths of the two sides.

to-designate the sent and a second to resea the order. This is also a moving curse to designate the new yee wish to kins at or move he set. Thus can command include moving, that normally, pounding suppressor for an orealizing a sized sense. Ensure units only appear on the map when they he actually been discovered.

Apart flors your tasks, you may also find yourself control of supply Insiss, onto task units, sowns, his most and regiments.

The game locks deceptively easy. Stansing at navice levicehing happened far a few risoves used I found the mer

and a parting now that, storphing many against afford on the and I got supped one without any apparent officer or shall of the dealers, most of whom I never even nontraining complete with an eventue of the best warrants contact, Baratico Commander is one of the best warrants in produced for the CMA. GERI markham.

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manfet is a two player areade game which is totally. Reach out for it since a document

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Merlin Assembler

Assemblers aren't very common for the C16 and plus-However we've managed to have a look at this one fre

By Paul Eves

Meriin Assembler in a fell 7531, was pars somewhere for the Pan-Ca and Clif. In common both our Tape and Etak. Was and have gone for a porce server depter sense for a server server depter sense for assembler in advantable. The interpretamental sense shall be seen har a shareholder of 4882 machine and a shareholder of 4882 machine conduction.

has a horseledge of 8002 souching code, only one or red familiars, I would suggest you sequive some before a strongwise to use this package. Because Merlin swides at \$1000 no \$2100. Done has been served to \$2100. One you have a source being couly to assemble, you just type ASM and preor riters.

Once loaded, Abrille loves the Basic minut. Therefore you may sell.

Scota rec of Basic Basic may a integrated in the naucco However, all Basic Bees must be the END statement, and are as by GOTO and not HUN.

gram Designing

the assembler where it woulding in memory for command is missing program will not be asse to COM \$5000 by COM \$5000

This would begin assembly from \$500 centrals. In other would the intraction ids # \$01 would be the fiving rection at \$5000.

As COM in the first instruction a any assembly program. END must be

or a protein making the behalf he to be to

10 COM \$5000 30 LIST 30 LDA # \$1° 40 STOP 50 LDV # \$29 10 STA \$D6 30 END

5000 AD FF LDA # SFF READY Note that line 50, 60 and 30 not been listed, this is because STOP command. If you wish to

Labels

and not Machine Language programming. Nobody in their right minds would attempt Machine Language programming those days untoo they need for the old days of terge complex machines.

Labels can be used anywhen within your source code, but much they make the programming th

7 guineser that much more enjoych to Comoder the following sends program in 18 COM 85000 20 LDA # 54°F N. JSE DILAY

OP 28 LDA A SUF SU JSE DILAY 48 LDA A SUI SU LDX A SUI 20 DILAY DEX

not of program here 200 DELAY DEX 230 BNE DELAY 230 RTS 240 END

jut put in your labels and the most date the hard work for you. Lif also make for better program desig my opinion.

Thus inservations that are pomorful as "TX and "DA. Those all for the sharings of data as either AS when we WI WHAT produces."

*IX "YOUR COMMODORE TEXT" *IX "SO IS THIS"

This would steer fix aborsentences in memory under ASCII codes.

DA 850,8FF-255,800FF-3276

of both her and decimal numbers, been is standard, the T is put in familial to number that you wish to be take All best.)

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AN BOLINCE GENERATOR - Designed with both Accident bit legin_attoms.amil places bithes when the chocking amil 3 system start numbers for facebill APPE \$6.95



Games Reviews

currently qualiable. We've wicked out a



Originality: 6/15. Graphics: 5/30. Plesshifter: 6/10. Value

******** El BI DI WINE O

I his is the first of Dornark's addition

Tale Treat Parasi - Toung Players Edition, Supplier.



Oxiginality: 6/30. Playability: 6/30. Graphics: 6/30. False:



By the year 20th the Strategic Defence Initiative "Star

against the new peaceful Earth.

Luckity you as Nick "Daring" Diamond can still fly
only sarriving anti-secraft weapon and warp off to sare
works.

Laboratories, you cally have a simple fixing lange.

world.

Unforming amount of the property of the property of the world.

Unforming along the practing along and the king language of the planet retaining below.

The action is far but also not descript as you listed.

and digitarying your receive on the screen: However, missiscleded from a menus while the game continues so you to five long enough as appreciate there.

Yet another game where a good idea has been let dive a poor game.

Touchline

Take Defects Supplier Quicksfee, Fixeery House, Leisense Place, Landre WCM 7NR, Tel: 61-69-668, Markhan Cod Polon (L.O.). Originality: 6/30, Graphics: 3/30, Physiolitys 4/30, Fider 4/30.

TARZA

Are remains non-term count of the Congo, conting paths (Fringe chapters) of Zanashray, African foliabase raths of the legaridae explosits of cone mane, that mane was Taxime, Lond of the Agulet in on cophen in the jumple, Taxime was marted by a shique. Kala, and Taxime leaves the lines and language of Jumple. Only Lauri is life was it closovered that Taxime was real most other than John Chayton, Lond Greynorde, Whitehor

Out have in the war in decreased that Tazzan an only associated that Andrew Leed Copyride. Whether can be asso. From Cot the Roads. Tazzan was still insent fall before an one was a Poor of the Roads. Tazzan was still linearitied bears, and observed recoverably the sold does for instending the control of t

This is the utility for Marsich's latest resp, and to cold be the hepstand of the end for anyone who leves addition arrange also services who leves addition arrange adventures with a necessarily for ranging. In the compart days, you man control Farests most layer latest year latest any dataset of saving Jan.

It amy dataset of saving Jan.

To help Tarran, their are various animate and leastings to object that must be collected, including rejes, morehays and diffusion coloured inhales. Which there from: Tarran we diffuse out to be a saving Jan.

The first thing arryone will notice upon hosting the pain Hab Hobborth's introduble conditions, which, including most the his most impromite to date. With only 44 box, Behan managed to get the whole Tazams theme, compiler we incredibly authorities hongus, so well as a host of fifth including a rapheter levies compiler with shap critical. Once loaded, the quality of the graphics is also appear.

Once loaded, the quality of the graphism is also appared New backgrounds and an excellently astimated Tantan and so the feeling of the game, although the time taken facturered the screen, and the manner in which it is done less than improved.

Tantane is an excellent areado advertage which could treat the contraction of the contr

tabbard mass how can you le

Touckline

Tuler Turran, Supplier Marroth, Harroth Finner, St. Turrece, Proming Bay, Edward, BA246E, Tel: 022370605, Machine, Col., Price, 25-35. Greginality, Sci. M. Graphica: 77 Ab. Piepublity; 27 D. False, U.S.

STOLE A MILA

Ever wanted to plan the perfect crime from the conflort year. Iving rower! New you can using the S.W.A. (SadWare for Appling Crimicals) data available through "What Crime" magazine. This database of boodhams for him, rangers to be robb





and forces to self the goods allows you so plant and exemply able for you to rise from small time crock to Me Using standards manue, you can bey information they have been supported by the properties of the pits. Chansiters south as Charle Verland Datus IF Arey have a poculiar shift in that can be bised for a forcess of the pits of the pits of the pits of the pits of the pits.

the jab. Chansiture such as Charle Veh and Deten D'Ary bare specialts shifts that can be broof for a smally search of the profits on your should shop around to the right team.

Doing the Mangelant and a simple set of icons you can easy sup of the raid from disabiling alarms to blowing

pou tackér a ta

This They Stole a Million, Supplier: devolutely, 68 Long days, London WCIS 600, Machines Cité, Prices 48 85. Originality: 6/18. Graphics: 6/10. Physiology, 7/30, Falter Visi.

STABBURS

The Clib boom seems to have slowed down slightly, with it, the number of really good games. One of the games that really made the less of the little Commonle pupils and obstor was not offering from Ariolasell, of lippofersy, and programmed by Tony Takonski.

. 6

Therefore, when the latest Ariola/Takoushi offering was used, I was eager to get my guidely little hands onto the fact and put it through its passe. Hensus, if it not receive cover, their their game falled to impress me, in laid to me that the author had tried to overe up for the to obvious room by overcomplicating the gameplas sliding that has seen many geople full fall on their lates forly after a few beam play did I start no find myoding The first level involves belasting at two balls at the top as because of the score used they have been his to many the that they become "serior". Your shap then soop firing as come into a large peop top the wide which you man got those two halds not their respection home clear. The nexual this series is speed, an the factor it is completed, the mapowers are balls top, if this level number has carry, been a speed of the series of the series of the series of the series is speed to the series of the series of the series is speed to the series of the series

oney, used sizes come east, Levell two involves Makele Menagia, a locus disk, Town-older the boards with test god for screen. As the forestfield blanks, a member of colorione that to god spaper, and man the accided at all colorion that gets so bad that there are right bath fitting amount always most appoint. As with four does, completely ladds to a broadtest, which leats as long as the amount of going time you later remaining. Level there right a be fifte most difficult, but it in ord? A you mode to do by it count up the Planton Building to

canny may of an early Misser game, Starburst, at \$2.9 opnosests exactlent value for money, and should not entered by any CM/Pin 4 enters looking for a challenge of the starburst and the starburst for a challenge of the starburst looking for a

Ehler Szerkerez: Sapplier: Ariolaset, 68 Long Azer, Cerest Gerden, London WC2E 900, Tel: 51 Etc 5411, Mechber CSF/Ten 4, Prices 62-90. Onlighality: 570. Graphics: 678. Physiology: 570. Values



IAMPIONSHIP WRESTLING

Over the past couple of years, one company at game others has steed out when it consec to sport simi those. This company is Egys. Once again they have prev

DOLL HARRE RELATED

worth with Championship Wresting. In general I am not a | their exis

ment.
Basically the objective in Championship Wyntsling, get rid of all opposition and become the Champion were As in more Egys games, the mere people that particle is festivities the better. Obstanding up you are asked if your to either practice, compete or see world recends.

This allows you so get acquainted with all the various storand joystick positions that are required. (I would sugge you get pleasy of practice before doing builde with someoelse.)

ebe.)

In the competition mode, if you are playing alone, you does no wrestler and then play each of the areas others tam. With more than one player, each player will be aided.

When playing in competitions, judicious selects who you must to be increased. Each wreader has he see and strong points. After each has one specialised stronness of the orders have. So once again practs

ensore in knowne as the custom (torre.)

Occords, there are some 20 movers possible that wreather one performs. Unfortransitely, offere in not necessary and the contract of t

year precision move. For building to give two application, adoption upon some of a the filting has in the set. To the ship adoption upon some of a the filting has in the set. To the ship and the set of the set

Touchline

Hallord Way, Hollord, Borningham, Bit T.E.E. Price, 1939. Originality: 7/30. Graphics: 7/30. Playability: 6/30. Value: 8/30.

PARADROID

For those of you that missed them first time round, Hewsen has re-released two very popular '86 bio, Facadooid and Uvidium, both pregrammed by Andy Berybrook. Pandroid in the same as before, except that it is much lister, ashirk Uvidium has lost of one with decism. So what do you

have to do?

Faradooid is simple, you are ordered to dented matteres crew of Dreids that have taken over a gale freighter. To aid you in your task, you are most will breid influence device. With this device you can take and control Dreids. (You can also simply blast there or

which is made up of several decks. Obviously, thougs are not that easy. The decids are made up of varying poner



down, and therefore all lights grount. In other words the digood dark. One soord of castina beer. Do not think that it is simply a senter of Massing everything in sight on each let Perci in a lot more strategy irredwed. My only real tiprous in geometic district.

Some agentation is, what surspaces state of 11 the offsme of active a first and two process root income. The dwolds all actives a first and two process root income. The dwolds all other incomes agent a first active active active active acbectome higher, then its finguese increases. For tagger year careed shoot dress. Transforming to doubt it significantly active active active active active active active active expect. Develope the dwold process to this survey, and and entire the protect. Press the first better and hadd, they give the dwold protect and the state of the dwold dwork, then took the closure direct. However, the dwold well as contact the createsplate before by furthing year either preparament fault the block. To gap on control of a block.

meving your pulsars up on down, then prenting the II buthon at the required place. If after the time believe being you ha move of the blocks coloured in your colour timeler complete. The higher the deval wender, the move pulsars made available to it.

To move around the different docks, find one of tight and proon the button which you are staining on it. You in

ow docks, the whole ship, or droid capabilities by stam frost of one of the deck considerable and southered and I fairly enjoyed Paradroid the first time, but now the as been made slightly lister in play, it becomes once a njoyable.

Touckline

atic Milton Frading Exzer, Milton, Abingdon, Ocon. OX74 6, bx a Mechter: C44 Prior: (3.43 with Uniform Originality: 3/33, Graphics: I/10: Physioliky: S/33, Fin. et al. (4.45).

Touckline

Originality: 2/15. Graphics: 5/10. Playability: 9/10. False.

Originalty: 7/18. Graphics: 5/10. Pleyebility: 5/18. Felor:

BANANA STOCKISTS

banana

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Nine Line Matrix

By A. Miller





How many stoupless rights have

C64 UTILITY W

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WIZARD SOFTWARE (Dapt 88) 26, Nestrian Dalva, Reshbib, Exeter, Davon EX4 18A

In the numbers war you can win with Polynomial

A Compater Abled Analysis Program for the Commodous 64/138 Polysecrat is a set coefeired merc offere mathematics program which can easily help you viry part war guide landers. Polysecrations been specially written to allow you to play with rambers, draw graphs and investigate mathematics "relationship," and took at what Polyspooraid can do for you:

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Labeller 64

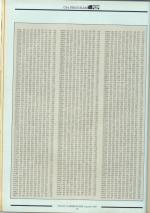
Let your C64 take the hastle out of printing name an address labels. Your C64, a printer, some address labe and this program are all that you need.

Hon often have you had to ty address of a friend on his an error Or perhaps your have a first of p that, you need by send interes to

on and printing a selection of an your command.

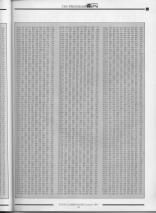
you should LOAD in the data you already have into the Mrc Detashouldy have into the Mrc Detatory program and use the "Enter in the Data" option to continue.

DECCRAM LABELLE



C64 PROGRAM





Hex Data Entry

Program to make our listings even more access

Br M.C. Stretton assisted by P.A. Eves

by Your Commonder Het Date heter preparation heter nicht Ander hoo, the coader in mind. An Integre will as he as paristation gain paided, typig in all the borg less of dates. This prepares and entery later yet their yet their prepares and entery later yet their yet their prepares and entery later yet their yet their yet their prepares and entered and prepared to so not seen an assumited and posself so so not seen to the content and their prepares (DAM). DATA, 5-54V. There are easy how captains in their prepares in the content of the content of the content of the content of their prepares and their prepares are not to the content of their prepares and with him their many captain and their prepares and with him their prepares and their prepares a

DATA, SWIER DATA, PRINT DATA, PRINT, PRINT

which you can other data from You Commonlyse, or your own contained. Once this option is released you are acted if you went to contained broad. It is not not contained broad in the I DAMDOF at fifty, then address well be the outst available bytes in the halffer (Allering you to add more other to fit and of the board life. The in alternaof the programs contently in normally Designation of the program assembly was set to the program assembly you are starting a trule set. We his happens the halffer in rost to you than hanguage appears occurred.

We in present the program enters were art strategy and extensive Ministry and the most of the strategy and the strategy of the strategy and the strategy of th

his a miskine, one goes of the DI will make the whole namber. I may deploy our mode, when you who was the whole namber. I may determine the second of the constitution of the constitution second my reach feet is in the constitution mode, after or in the constitution mode, after or in the constitution mode, after or digit checkware mode, after or digit checkware in the end of digit checkware is to read the fit of the program. Ends, that if the program, Ends, that cleaned does not make the incord, a warming one will be soon out that he would dig out with

the three remover is controlled. If you that you have you

with float out of the print mode equivers you in the mains mean. The first serves key has left of your date. The special part of your date. The space has not an expert a space has not an expert as the space has not a control to an expert as the space has not a lounded into the briffer, so it is pere to lound a basic program of the and damp, their receip the expertment of the space has not a to a space and the space and the till it is set your. I hope that this programs will belt take the drashery out of typings and

in that this programs will be dradiging or of if Ipping in data statements.

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Study the two pictates on Their are several difference then Mark the differences can find and then fill is the Piece write the scarber of a which you have found on it

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remotions and applies to employe issuitation and appries of the companies the filter and agents of the companies from paid the raise. The odnor's decision find and no correspondence will around into.





Superbowl Competition Entry Compon

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WIMPS and Much More

For those of you who found our WIMP Program useful here are a couple of additions to make it easier and

By Allen Webb

E are of use if often a major factor taken into consideration by programmer, when they are samming up a program's usefulness. This is why I have shoulded to provide this addition to the Winty program which appeared

in the December 1996 issue of Ten Commoder.

After setting the demonstration contine, I felt that, which it has instructive, it don't give row anythen, to work from I have therefor prepared a semeral rayes contine to

realise you mail from pain to following presenting.

MES. MENU STRING.

MW. MENU WEDTH.

MH. TOTAL MENU HEIGHT.

XI. X. COORDINATE TOP LET CORNER.

CORNER 1
1L: Y COORDINATE TOP LE CORNER+1
CLC2 MENU COLOURS
The soutine will then draw mean and set up the polyne, contine detects the marrowest of

pointer and highlights the me options or "last page" icon when the are pointed i. The buston presidetected if an option has been selecand the country exits with the followinformation: y and LP to direct the to your peogram.

Input Instructions

or The idea of this series is to precise to a continuous which can be used in a serious applications to reduce the of programming.

One pain is the seck is the IN isometation, Most out marr require to put of advantative and it evened that such appears on the continuous artificial and the programming of the part of advantative and allowed the programming of the programming

on DPUT soing a lingual file opens to the screen.

It becomes particularly irritating you want to limit the characters to be accepted. For example, what if you want to prompt for a respective using only Y or NT One way in the results

This is simple or want to accome a The are of a sacr defined is reusine opposed to be the ata Such a routine should have following features:

of Ji The routine should pre flashing poorage, early place specified screen position.

2) A last of acceptable of should be early set up.

3) The routine should image if

incorrect characters should be able.

4) The input should be asaky lint a specified length. The input specified length. The input above the screen contents. The ablest the use of Scenated they 5) The input should be retain specific unity areaful.

described one DEL key i correct inputs.

This reatise has a rath option:

R 5YS 12+489LBEARX.Y.I where:

of A8: string specifying acce

Get it right first time with our deluxe program syste

initings are free of those horishis little black below which send you nearshing around the kepboard for a mistable graphic symbol. You may also have noticed the featury members by the shie of earliers of earliers for the listing. First no more, it's all part of our rate enery sid. It restend from many graphics and saves of consistion spaces in PEINT asstrators and crings we are a preful.

nagare basekets and you'll noon har to decipher their mennings.

For example, [SA] would mea type in a Shifted A, or an aer of speake in fayesar's terms, and [SA33] would mean a row of ten of these speakets.

makin that [C+2] means smooty a same thing except that the Comm dors key (bestoon left of the keybox is held down instead of the shift to If more than two squeez appear is statement then this will be prized [SPC4] or, esceptionally, [SSPC Translated into English this mu press the squeezer (special control of the press the squeezer (see control of the

(CTRL N. DOWNZ,LEFTS,BLU F3.C3)

corne left hav Frv itters, pees di sarched Bi. Uli which bolding slob CTBL. key, prots the 19 key Faulty held the Commondore leyworld of course rashe the conpried in booms).

Always concrebe that your color in your peed of the control of the course of the peed of the control of the course of the suppare to and no common, unless exceeding

print in brown).

Always remember that your cash have a row of graphics that re notes received in dispatch that an ion receive with no square this agency in this repears.

153 (C-1) In this cone the two characters in hurr a common between (SILV 2) agency in a lating. This is a gapuse in a lating this is a page of a lating this in a

the up to the meanwhile, then type closing quotation must (SHIFT & and dilete it. The gate the compare out of quotes mode (Hold near). If HVSON), type the elevent mode of the compare of

is needed in a calculation of look seamathing like: Ignore the opens brackets and just type in a shifted upward pointing arrow (in the pi symbol).

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At the top of each article you will find a strap contain article type, C64 Program etc. So that you can see we grams are available on which format you will also fi

uple of symbols after this stup. The symbols i floring neuring.

These programs are available on disk.

Please Note

selection of the program, we do not put disk only bing on tape. There is no some in placing a program it to be reading from disk, on to tape.

OCTOBER 19

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CP/M: The Third Facet of the 128

The C128 has three modes - 64, 128 and the much neglected CP/M. In this article we bring you a packa

By Mycrofit Appleby

The Commercial II some table for NPA and incompression of the balls in 20 month presence. However, the commercial incomplete is a supplied with your face of the supplied with your face o

or of the control of

In around 1990 mercey without getting a bit sheaper and all nowagetter bodges were being used to get mgRNs; memory into CP/M system than gwell A4K offered for OMK in 1973 where provinced and based to discuss (Digital Research) wrote CP/M harman CP/M+ to cuter for it. Up upol accessor CP/M contained a number of an owners. A baye ROM that had pres-CP/M off disk and into memory Batts BIDS or Besic Lance / Durane Scotter Real to handle the paper tapo/keybour send printer etc. a BOOS to bundle a Blow disks, and the CCP - or Core after Command Processor, which avoid marel does all the denkey work. All the BONE together take up about 12K - though the I can vary depending on the marks calle Take out the screen and a small as great for variables and the TPA or Transp stone Program Area (the place in cases more that the programs actually get load want into storts to shrink. So ever uit a pe-

a calculator display and a send a MEA keypod - that' all would just contain to those - they were probably righteen though when you know the MEA

46K TPA, running a business programmy only give you 16K to play any free



s sould here. When DH also took the opportunity secondard to dear up some of the designer has able visited point of CPOM 2.2 and make it work in

SVEW COMMODORE much 1967

DEPYE-A - Orde from dever specified.

many on DEMP - Dividing a bry dame of a es Subtivities g. This is so GEI - Cuts consule input from a disk. than to the file rather than from the hundraged of the ect. the mand or the has CPVMs. here gone has the surveys into a disk file. program in MC pass PROPERTY TO SECURE modul come in set or change physical and logical

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Diskits 1, 2 and 3

for disk users. By Les Allan

DISKILL

sitted as saving all your machines; memory how \$2000 to \$FFFT, it is not intended to powers pixtry, which may be the immediate coordinate which you long to, house ended commercial Proce France, to make but one, the user cas only work with an antiroid which is under the control. Without the knowledge of a same address it is not me are to you whatsoever.

he Facts

to cord as 80207 and 9030C shult provide the reason to save seemony between 80001 and \$1797F. The grogites saves thee files as fedored.

In order to make use of the kernal restines for saving etc. this part is relocated to \$1000 and then saved between \$1000 - \$16741.

This part contains the classification of the second between \$1000 - \$2000. To routines are included to perfoliousing.

soutines are included to per following: 01 relocates the character/lo to 82008 - 827172

Point number one is that you must now the start address of the program

Instructions The s

1. Lead in the program to connect into the facilities pairs

2. From reset saids if sequired counters

4. Lond "MEME", S.L.
3. Type is Blanc NSS coll in the 10 NYSOMC in that's the abdress. Or counsel. A SMI command can be used to explain REIN command in the BOOT but you will rend to use a monitor or clots township to do NSS 828 to some temporary.
5. The two files BOOT and MeME over a complete vertical copy.

working space.

8. If, when the MAIN part is exampled it crueched it crueches to less than 154 blocks the the KEEN part \$1000 can be appended to this.

Bemember that it is illegal to picas software so this resident is for one will

software on this marker in the user system one softward.

The progress in literal must triped it causely no software supports to receive the property of the p

DISKIT 2 After programs are sared to cli-

displication of adjacent data memory which can be compressed if the use of a code compressor. This Turbe Chancher will now with either Basic or machine coprograms providing that the prograresides in memory from between 5881 and \$5000.

the F1 key or go straight in the conclusion with the F7 key. The program is then read in an other read content on contents code compressed and in said that the contents code compressed and in said that the code is above to getting with a 1%.

The still of the near well determine the results that are assistable had it to purpose the contents that it will be considered to the contents that are assistable had it to purpose the still entering with comments.

and a Brasic boottop provide a singlette. BAM may exist between \$8500 as \$5000. The finished bid can then be to the finished by produce a small secretary ressure which could be a working ressure which could be a small as 17 blocks which, considera of the saved file was 200 blocks may approved a considerable saving or lot date good.

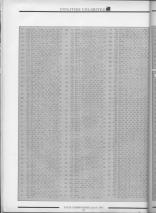
Hereuwher that is a thighting software or make such that you cell this to your own programs? The program must be type earth as white and savel poor maning. Earth ready resistant included to ensure that the data as it is a second of the same that the data as it is a second to the same that the data as it is a second to the same the release ode it as tempo address of \$5000 and when program thouse the he working program that (\$5000) and saves the program data.

DISK

enables a program to be made mean part from the fifes sailed "MAIX" of "KEIN".

The program mocks by taking to routin from the MEMORY SAVE or routine which creates they fire \$2.50 MAIN" KEIN" and "BOOT". I when the MAIN file is Turk at Cranched the total loopin of the SE.

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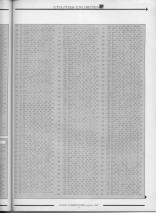








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By Margaret and Allen Webb

Thomas

oware game so much as some or hing graphics, providing it

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The method of creating a binary at bilows:

1. Stars not or cold must your fell libers this line in chreet mode:

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1. Loud and run Listing 3, 4 are data orders;

4. Loud and Don Listing 3, 4 bilod, starsing at 8752 and fine.

Lifyou have already tried the set of the adventury on its own irgit to nose line 40 of the adventure to that given in Listing THE PROPERTY OF THE PROPERTY O

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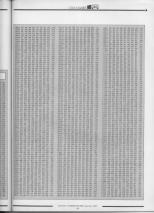
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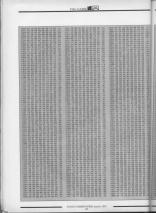


Popper

By Ion Potts

As Person the peoples per year



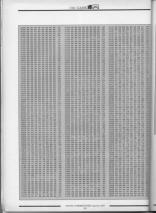




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Contributions

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Y our Commonter is almost on a look out for new grogeness, based sign, articles and even regular series, fact if you have something that y think could be of our as other Counders owners we made to hear about \$0.0 from have got something why you think we may be interested

Below you will find a list of guidelines that will help us to deal with any irom that you send in to us. We chee's expect everybody to be the next Without Shukespeare but if you do follow those simple rails steen it will reade our job a lot emice.

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Programs should be included of the dals or type. Make sure the SAVE line supers of every penge that we have a bester chance of in them if problems occur.

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Similar to the above routine, however, this time the

PROGR	AMMING		
This routine sends the character in the A register to the serves expect device. The output device must have been set up using the OPEN and CHKOUT reatises. If these have	Input parameter: X Output parameter: A		
nit been used the data is sent top the screen.	A table at memory location SFF6B is required normal operation of the C128. The configuration is should be passed in the X region. The configuration		
CIOUT Person: Send beta over serial but	returned in the A register.		
Call address: EFFA8 Inon maraness: A	DLCHR		
Hachines: All This is the routine used to send data over the serial bus.	Perpese: Copy the character ROM Call address: \$FF62 Machine: CLIS		
Before you use this routine the LETTN reatine must be used to left a device to get ready to receive data. Should the device use a necondary address then you should use the	A call to this contine causes the character set to be co- into the video display chins internal memory.		
SECOND routine to send this.	DMACALL		
GINT Perpose: Initialize video controller and serves editor	Porpose Initiative external RAM components Call address SFF50		
Call program: 8FPS1 Machiner: All This routine initialises the video ships and the Serren	Report parameter: X Machine: C128		
shoes. On the C128 the function keys are set to their default taken and the $40/10$ key is shocked to see which mode the odes ship should be in.	When you require direct memory access to extensionly it must first be initialised with this routine. To register should contain the new configuration.		
CLALL	GETIN		
Perpose Close all files Call address: SFFE7 Harbines: All	Parpose: Get a character Call address: SFFE4 Output: A Matchines: All		
A call to this souties will slow all open files. A CLRCHN swine is also executed to reset all I/O characts.	Machines: All If the input channel is the keyboard their one channel nead from the keyboard queue and in ASCII takes place the A register. No channels in total, careful place a zeroes A reg. If the input channel is setted, careful or screen i nee the CHEMI resizion.		
CLOSE brown: Close a specified file			
Gif address SFFC3 land parameter: A	INDCMP		
Machiner: All This remine is used to close a file after it is finished with.	Purpose: Compare the accumulator with enemary in		
The accumulator should be loaded with the number of the diamet to be closed before calling this routine.	Call address BFF7A loput passeneres: A, X, Y 803C8 Output passeneres: 935		
CLECHN	To compare the contents of the accumulator with contents of a momory location in any bank you should		
Perpose: Clear I/O shannels Citl address: SFFCC	the configuration index in the X register and the offset is Y register. Location 902CB should hold the address of zero page resemen location that holds a pointer to		
Machines: All Call this routine to alear all open channels and restore the	receivery location that you wish to compare with. INDEET		
leper/Output channels to their original default values. If its open channels are set up as usual then an UNTALK is ant first to clear the input channel or an UNLISTEN is seen	Porpose: Get a hote from one bank		
to clear the output channel.	Call address BEFN Input parameters A, X, Y Output parameters A		
GETCONF	This allows you to read the contents of an address in		
Perpose: Get the configuration byte. Call address: 89 Fn B.	configuration without baving to change the actual men- configuration. A pointer must be defined in a zero p		

ICDEAD.

Accumulator should be set to a zero if a LOAD is to be place or a one smooth you require a verity. If you OPEN men with a secondary subfress of 0 the X and Y registers should

This routine checks to see if the STOP key has been

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